

CLAIMS

SUB A₂ >

1. A coating composition comprising;
 - i) diphenylmethane diisocyanate, and
 - ii) a hydroxyl functional compound which is a polyester having secondary hydroxyl groups, the secondary hydroxyl groups being the product of a reaction between a carboxylic acid group and an epoxide group, the composition containing substantially no reactive diluent which are aldimines, ketimines or aspartic esters.

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2. A composition as claimed in Claim 1 in which the ratio of the isocyanate groups on the diphenylmethane diisocyanate to the total number of hydroxyl groups on the hydroxyl functional compound is 0.7:1 to 3.1.

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3. A composition as claimed in claim 1 or claim 2 in which the hydroxyl functional compound has a molecular weight of less than 5000.
4. A composition as claimed in any one of claims 1 to 3 in which the hydroxyl functional compound is the reaction product of a polyfunctional carboxylic acid and a monoepoxide.
5. A composition as claimed in claim 4 in which the monoepoxide is a glycidyl ester of a C8-C9 tertiary carboxylic acid.

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6. A composition as claimed in claim 4 or claim 5 in which the polyfunctional carboxylic acid is a polyester with two or more carboxylic acid groups.
7. A composition as claimed in any one of claims 4 to 6 in which the polyfunctional carboxylic acid is the reaction product of a polyol and an anhydride.

8. A composition as claimed in Claim 7 in which the polyol has from 2 to 4 hydroxyl groups.

9 A composition as claimed in any one of claims 1 to 8 which is pigmented.

10. A process for preparing a composition as claimed in Claim 1 which comprises mixing

i) diphenylmethane diisocyanate, and

ii) a hydroxyl functional compound which is a polyester having secondary hydroxyl groups, the secondary hydroxyl groups being the product of a reaction between a carboxylic acid group and an epoxide group, optionally dissolved in organic solvent.

11. A process for coating a substrate which comprises the steps of applying a layer of a coating composition as claimed in any one of claims 1 to 9, to a surface of the substrate and thereafter causing or allowing the layer to cure.

12. A coated substrate obtainable by the process of Claim 11.